

## APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL ☒ DEEPEN ☐ PLUG BACK ☐NAME OF COMPANY OR OPERATOR DNR - GEOL SURVEY DATE Sept 77Box 250 Rolla MO  
Address City State

## DESCRIPTION OF WELL AND LEASE

Name of lease <u>ENDA TS</u>	Well number <u>33</u>	Elevation (ground) <u>873</u>
WELL LOCATION (give footage from section lines) <u>5</u> ft. from <u>(N)</u> sec. line <u>96</u> ft. from <u>(E)</u> sec. line		
WELL LOCATION Section <u>7</u> Township <u>33</u> Range <u>32</u>		County <u>BARTON</u>
Nearest distance from proposed location to property or lease line: _____ feet		Distance from proposed location to nearest drilling, completed or applied - for well on the same lease: <u>NA</u> _____ feet
Proposed depth: <u>175</u>	Rotary or Cable tools <u>Rotary (A-i)</u>	Approx. date work will start
Number of acres in lease: <u>NA</u>	Number of wells on lease, including this well, completed in or drilling to this reservoir: _____ Number of abandoned wells on lease: _____	
If lease, purchased with one or more wells drilled, from whom purchased: Name <u>NA</u> Address _____		No. of Wells: producing _____ inactive _____ abandoned _____
Status of Bond Single Well <input type="checkbox"/> Amt. _____ Blanket Bond <input type="checkbox"/> Amt. _____ <u>NA</u> <input type="checkbox"/> ON FILE <input type="checkbox"/> ATTACHED		
Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) use back of form if needed. <u>STRAT TEST</u>		
Proposed casing program: amt. size wt./ft. cem. _____ _____ _____ <u>NONE</u>		Approved casing - To be filled in by State Geologist amt. size wt./ft. cem. _____ _____ _____ _____
I, the undersigned, state that I am the _____ of the _____ (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge. Signature _____		

Permit Number: 20025Approval Date: SEPT 1977Approved By: Wallace B. Hays

Note: This Permit not transferable to any other person or to any other location.

Remit two copies to: Missouri Oil and Gas Council  
P.O. Box 250 Rolla, Mo. 65401

One will be returned.

Approval of this permit by the Oil and Gas Council does not constitute endorsement of the geologic merits of the proposed well nor endorsement of the qualifications of the permittee.

☒ SAMPLES REQUIRED☐ SAMPLES NOT REQUIREDWATER SAMPLES REQUIRED @:  
\_\_\_\_\_  
\_\_\_\_\_

MISSOURI OIL AND GAS COUNCIL  
WELL LOCATION PLAT

Form OGC - 4

Owner: DNR- GEOL SURVEY

Lease Name: ERDA TS No. 33 County, BARTON

5 feet from (N) (S) line and 96 feet from (E) (W) line of Sec. 1 Twp. 33 Range 32


SCALE  
1" = 1000'

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest lease and section lines, and from the nearest well on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well. Do not confuse survey lines with lease lines. See rule 7 - 3 (b) for survey requirements.

(SEAL)

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\_\_\_\_\_  
Registered Land Surveyor

# TEST BORING LOG

Project E. R. D. A.

Boring No. 3 3 Sheet 1 of 2

Sec. 7, T. 33N, R. 32 W

Surface Elevation 873' Offset \_\_\_\_\_

Address \_\_\_\_\_

Date Started 9/1/77 Completed \_\_\_\_\_

City & State Barton<sup>County</sup>, Missouri

Driller \_\_\_\_\_ Rig \_\_\_\_\_

Abbreviations: A.O. — Auger Only R.B. — Rock Bit C.W. — Core Water  
H.A. — Hollow Auger S.S. — Split Spoon C.A. — Core Air  
W.B. — Wash Bore S.T. — Shelby Tube F.B. — Finger Bit

DEPTH		METHOD	PENETRATION RECORD		CORE RECOVERY	SAMPLE DESCRIPTION COLOR—MATERIAL—MOISTURE—CLAY CONSISTENCY SAND DENSITY
FROM	TO		POCKET PENETRO-METER	NO. OF BLOWS		
0.0'	5.0'	AH				Red brown silty clay
5.0'	10.0'	AH				Sandstone, orange brown & gray
10.0'	15.0'	AH				Light & dark gray & brown sandstone
15.0'	20.0'	AH				Light gray silty clay
20.0'	25.0'	AH				Light gray & dark gray siltstone
25.0'	30.0'	AH				Light gray shale, light & dark gray silty sandstone
30.0'	35.0'	AH				Coal at 31' about 3" Light gray shale & gray silty clay
35.0'	40.0'	AH				Coal at 37' to 38', under clay, dark gray shale gray silt
40.0'	45.0'	AH				Med. gray shale, gray siltstone
45.0'	50.0'	AH				Gray tarsand, oil sandstone
50.0'	55.0'	AH				Oil sandstone, light gray silty clay, light gray sandstone, little gray shale
55.0'	60.0'	AH				Light gray silty shale, gray sandstone, little clay
60.0'	65.0'	AH				Gray sandstone
65.0'	70.0'	AH				Gray sandstone, gray silty clay
70.0'	75.0'	AH				Med. gray shale & light gray sandstone
75.0'	80.0'	AH				Light gray sandstone & black silty shale

REMARKS: (Casing, Water Loss, Etc.)

Water Level

Time

Date

(Completion)

**Layne-Western Company, Inc.**

# TEST BORING LOG

Project E. R. D. A.

Boring No. 33 Sheet 2 of 2

Surface Elevation \_\_\_\_\_ Offset \_\_\_\_\_

Address \_\_\_\_\_

Date Started \_\_\_\_\_ Completed \_\_\_\_\_

City & State \_\_\_\_\_

Driller \_\_\_\_\_ Rig \_\_\_\_\_

Abbreviations: A.O. — Auger Only R.B. — Rock Bit C.W. — Core Water  
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DEPTH		METHOD	PENETRATION RECORD		CORE RECOVERY	SAMPLE DESCRIPTION  COLOR—MATERIAL—MOISTURE—CLAY CONSISTENCY SAND DENSITY
FROM	TO		POCKET PENETRO-METER	NO. OF BLOWS		
80.0'	85.0'	AH				Light gray sandstone & black silty shale
85.0'	90.0'	AH				Same
90.0'	95.0'	AH				Same
95.0'	100.0'	AH				Same
100.0'	105.0'	AH				Same
105.0'	110.0'	AH				Same
110.0'	115.0'	AH				Same
115.0'	120.0'	AH				Same
120.0'	125.0'	AH				Black shale
125.0'	130.0'	AH				Black shale & light gray sandstone(very little)
130.0'	135.0'	AH				Light gray sandstone & very little black shale
135.0'	140.0'	AH				Same
140.0'	145.0'	AH				Black shale, about 1" of coal
145.0'	150.0'	AH				Black shale & chert
150.0'	155.0'	AH				Chert & limestone
155.0'	total depth					

REMARKS: (Casing, Water Loss, Etc.)

Water Level

Time

Date

(Completion)

*Layne-Western Company, Inc.*

FR &amp; COMP

## WILDCAT

STATE	MISSOURI	10-3-84	MAP NO.	S-T-R	7-33N-32W	S
OPER	DNR GEOLOGICAL SURVEY			SPOT APP	NW NW NW NW	INIT
	BOX 250, ROLLA, MO			CO	BARTON	S
WELL	33 ERDA - TS			ELEV	873 GR	FIN
CONTR	LAYNE-WESTERN			5' fnl, 96' fw1, Sec		
FIELD	WILDCAT					
IP	D&A					
	API 24-011-20025					

SPUD 8-31-77, no surf csg

RTD 155, log

D&A FIRST REPORTED AND COMPLETED 8-31-77

GR SPL TOPS:

MISS 150 + 723

RTD 155 + 718

TD IN MISS

COMP ISSUED 10-17-77



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